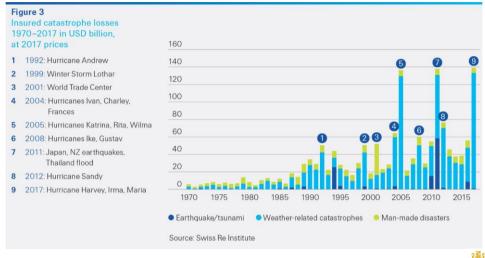




Insured losses in 2017: USD 144 billion, highest ever

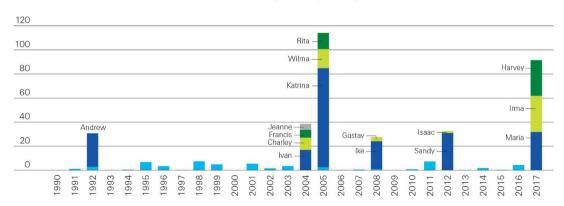


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2017 hurricane season: second costliest ever



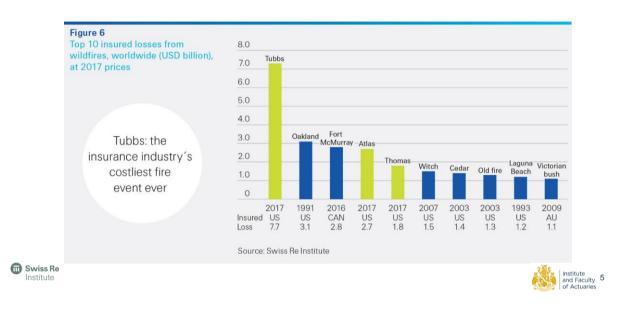


Source: Swiss Re Institute





Tubbs: the insurance industry's costliest fire event ever on sigma record





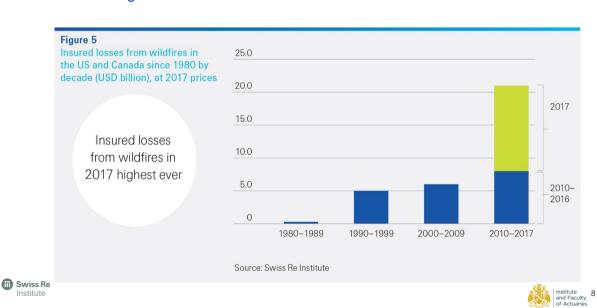
Wildfires: a burning issue for insurers?

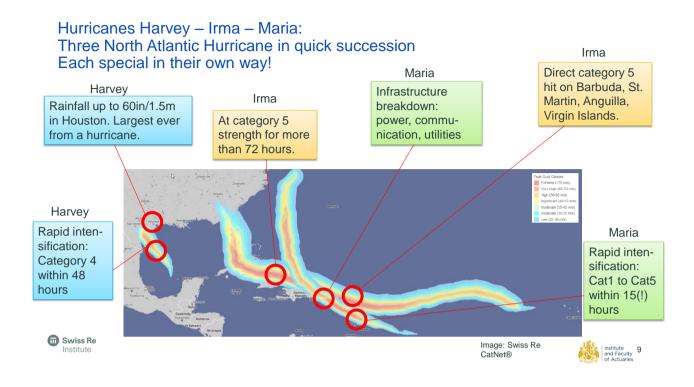






Record-breaking insured losses from wildfires in 2017





A foreseeable cluster of events?

Major hurricane development depends on a fickle balance of various factors:



Ocean temperature

Humidity

Wind shear (seasonal)





Initial disturbance

Ventilation

Wind shear (weekly/monthly)



More research on clustering of intense hurricanes is crucial



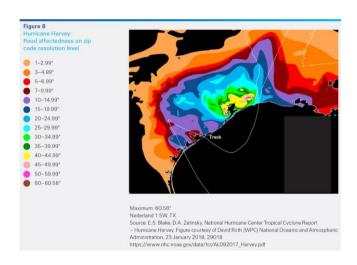
Global warming / climate change

Were the HIM storms more severe because of global warming?

Climate model projections, year 2100

- → higher sea levels
- ightarrow less overall, but more high-intensity tropical cyclones
- → more extreme precipitation events







Climate variability

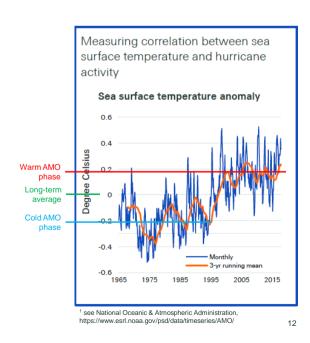
Is the long-term average hurricane activity commensurate with today's risk?

Atlantic multi-decadal oscillation (AMO)

- \rightarrow Atlantic hurricane activity correlated with sea surface temperatures
- → Driving mechanisms: atmosphere dynamics, ocean dynamics, aerosol amount
- → AMO index by NOAA¹ remains strongly elevated

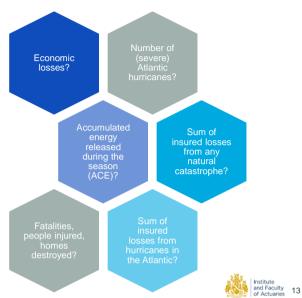






How often does a HIM-like event cluster happen?

It depends on what we look at...



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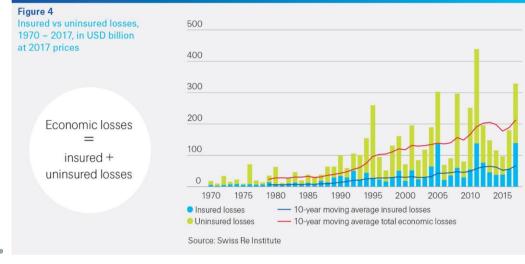
Institute

How often does a HIM-like event cluster happen?



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Uninsured losses from catastrophes in 2017: USD 193 billion



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Questions Comments

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17 May 2018

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